## Listing of Claims



1. (currently amended) A phase-change type optical information recording medium comprising:

a transparent substrate; a first protective layer on said the substrate; a recording layer on said the first protective layer; a second protective layer on said the recording layer; and a reflective layer on said the second protective layer,

wherein the recording layer includes as a main component AgaIn $\beta$ Sb $\gamma$ Te $\delta$  where  $\alpha$ ,  $\beta$ ,  $\gamma$ , and  $\delta$  represent atomic percents and satisfy the relations:

 $0.1 \le \alpha \le 2.0$ 

 $3.0 \le \beta \le 8.0$ 

 $65.0 \le \gamma \le 75.0$ 

 $15.0 \le \delta \le 30.0$ , and

 $97 \le \alpha + \beta + \gamma + \delta \le 100$ ; and

wherein assuming that a minimum recording linear velocity to be  $V_1$ , a maximum recording linear velocity to be  $V_2$ , and a degree of modulation at the time of reading out information to be I(V), then a value of  $I(V_2)/I(V_1)$  is within a range from 1 to 1.2.

- 2. (original) The phase-change type optical information recording medium according to claim 1, wherein a ratio between the maximum recording linear velocity  $V_2$  and the minimum recording linear velocity  $V_1$  is  $V_2/V_1 \ge 2.5$ .
- 3. (original) The phase-change type optical information recording medium according to claim 1, wherein the minimum recording linear velocity  $V_1$  is 4.8 m/s or more.

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4. (original) The phase-change type optical information recording medium according to claim 3, wherein the maximum recording linear velocity  $V_2$  is 12.0 m/s or more.

Claim 5 (canceled).

- 6. (currently amended) The phase-change type optical information recording medium according to claim 1, wherein said recording layer contains the AgInSbTe as a main component with further contains nitrogen added thereto.
- 7. (currently amended) The phase-change type optical information recording medium according to claim 1, wherein a thickness of said the recording layer is in a range from 13 nm to 23 nm.
- 8. (currently amended) A phase-change type optical information recording medium comprising at least one recording layer which records information based on crystalline-to-crystalline or crystalline-to-amorphous transition,

said the phase-change type optical information recording medium being rotated around a center of rotation when recording information in or reading information from said recording layer,

wherein the recording layer includes as a main component AgaIn $\beta$ SbyTe $\delta$  where  $\alpha$ ,  $\beta$ ,  $\gamma$ , and  $\delta$  represent atomic percents and satisfy the relations:

 $0.1 \le \alpha \le 2.0$ ,

 $3.0 \le \beta \le 8.0$ ,

 $65.0 \le \gamma \le 75.0$ 

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 $15.0 \le \delta \le 30.0$ , and

 $97 \le \alpha + \beta + \gamma + \delta \le 100$ ; and

wherein when the minimum and maximum linear velocities of rotation are respectively  $V_1$  and  $V_2$ , then a value of a degree of modulation corresponding to the maximum linear velocity  $I(V_2)$  divided by a degree of modulation corresponding to the maximum linear velocity  $I(V_1)$  is between 1 and 1.2.

- 9. (new) The phase-change type optical information recording medium according to claim 8, wherein a ratio between the maximum recording linear velocity  $V_2$  and the minimum recording linear velocity  $V_1$  is  $V_2/V_1 \ge 2.5$ .
- 10. (new) The phase-change type optical information recording medium according to claim 8, wherein the minimum recording linear velocity  $V_1$  is 4.8 m/s or more.
- 11. (new) The phase-change type optical information recording medium according to claim 10, wherein the maximum recording linear velocity  $V_2$  is 12.0 m/s or more.
- 12. (new) The phase-change type optical information recording medium according to claim 8, wherein the AgInSbTe further contains nitrogen.
- 13. (new) The phase-change type optical information recording medium according to claim 8, wherein a thickness of the recording layer is in a range from 13 nm to 23 nm.